

| L Number | Hits | Search Text   | DB                              | Time stamp       |
|----------|------|---|---------------------------------|------------------|
| 19       | 913  | 345/89.ccls.  | USPAT;<br>US-PGPUB;             | 2004/06/15 09:51 |
| 20       | 1210 | 345/98.ccls.  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 09:54 |
| 21       | 331  | 345/95.ccls.  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 09:54 |
| 22       | 8    | 345/95.ccls. and (pre?charg\$3 precharg\$3)   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 09:55 |
| 23       | 167  | 345/95.ccls. and compar\$5  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 09:57 |
| 25       | 22   | 345/95.ccls. and compar\$5 same horizontal  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 10:14 |
| 24       | 59   | 345/95.ccls. and compar\$5 same data  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 10:33 |
| 29       | 40   | 345/95.ccls. and compar\$5 with data  | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 12:32 |
| 30       | 91   | 345/215.ccls.   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 12:33 |
| 31       | 14   | 345/215.ccls. and compar\$4   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 12:35 |
| 32       | 283  | 345/214.ccls.   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 12:52 |
| 33       | 2191 | 345/589-605.ccls.   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 13:00 |
| 34       | 855  | 345/589.ccls.   | EPO; JPO<br>USPAT;<br>US-PGPUB; | 2004/06/15 13:00 |
| -        | 1    | "20020105492"   | EPO; JPO<br>USPAT;<br>US-PGPUB  | 2004/06/14 10:42 |
| -        | 637  | 345/89.ccls.  | USPAT;<br>US-PGPUB              | 2004/01/08 16:01 |
| -        | 85   | 345/89.ccls. and comparator   | USPAT;<br>US-PGPUB              | 2004/01/09 08:38 |
| -        | 1    | 345/89.ccls. and comparator and<br>((pre\$charg\$3 middle) adj (potential<br>voltage))                | USPAT;<br>US-PGPUB              | 2004/01/09 08:40 |
| -        | 1050 | comparator and ((pre\$charg\$3 middle) adj<br>(potential voltage))                                    | USPAT;<br>US-PGPUB              | 2004/01/09 08:40 |
| -        | 165  | comparator same ((pre\$charg\$3 middle) adj<br>(potential voltage))                                   | USPAT;<br>US-PGPUB              | 2004/01/09 08:40 |
| -        | 3    | comparator with ((pre\$charg\$3 middle) adj<br>(potential voltage)) and (LCD (liquid adj<br>crystal)) | USPAT;<br>US-PGPUB              | 2004/01/09 08:41 |
| -        | 73   | comparator with ((pre\$charg\$3 middle) adj<br>(potential voltage))                                   | USPAT;<br>US-PGPUB              | 2004/01/09 11:25 |
| -        | 73   | comparator with ((pre\$charg\$3 middle) adj<br>(potential voltage))                                   | USPAT;<br>US-PGPUB              | 2004/01/09 10:32 |
| -        | 36   | comparator with ((pre?charg\$3 middle) adj<br>(potential voltage))                                    | USPAT;<br>US-PGPUB              | 2004/01/09 14:13 |
| -        | 9    | ((liquid adj crystal adj display) LCD)<br>same (pre?charg\$3 adj voltage)                             | USPAT;<br>US-PGPUB              | 2004/01/09 14:19 |
| -        | 3    | ((gray?scale grey?scale gradation) adj<br>voltage) same (pre?charg\$3 adj voltage)                    | USPAT;<br>US-PGPUB              | 2004/01/09 14:20 |
| -        | 7    | ("5021774"   "6008801"   "6049321"  <br>"6151005"   "6201523"   "6335721"  <br>"6373459").PN.         | USPAT                           | 2004/01/12 09:28 |
| -        | 0    | 6661402.URPN.   | USPAT                           | 2004/01/12 09:40 |

|   |        |  |                                 |                  |
|---|--------|--|---------------------------------|------------------|
| - | 1      | "6483494"  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/01/12 16:08 |
| - | 0      | "183597"   | JPO                             | 2004/01/12 16:09 |
| - | 94407  | liquid adj crystal   | JPO                             | 2004/01/12 16:09 |
| - | 12     | liquid adj crystal adj drive adj method  | JPO                             | 2004/01/12 16:09 |
| - | 252632 | compar\$4 with data  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:52 |
| - | 3854   | compar\$4 with data same horizontal  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:52 |
| - | 64     | compar\$4 with data same (horizontal adj period)   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:52 |
| - | 29     | (lcd (liquid adj crystal)) and compar\$4 with data same (horizontal adj period)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:53 |
| - | 7      | (lcd (liquid adj crystal)) and compar\$4 with data same (horizontal adj period) and (pre?charg\$3 precharg\$3)                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:54 |
| - | 0      | compar\$4 with data same (horizontal adj period) and (pre?charg\$3 precharg\$3) not (lcd (liquid adj crystal))                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 11:54 |
| - | 7      | compar\$4 with data same (horizontal adj period) and (pre?charg\$3 precharg\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:03 |
| - | 1443   | (lcd (liquid adj crystal)) and (pre?charg\$3 precharg\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:04 |
| - | 1037   | (lcd (liquid adj crystal)) and (pre?charg\$3 precharg\$3) and compar\$4  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:09 |
| - | 199    | (lcd (liquid adj crystal)) and (pre?charg\$3 precharg\$3) same compar\$4   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:10 |
| - | 4040   | (pre?charg\$3 precharg\$3) same compar\$4 not (lcd (liquid adj crystal))   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:10 |
| - | 4239   | (pre?charg\$3 precharg\$3) same compar\$4  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 12:10 |
| - | 199    | ((pre?charg\$3 precharg\$3) same compar\$4 ) not ((pre?charg\$3 precharg\$3) same compar\$4 not (lcd (liquid adj crystal)) )                   | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 13:29 |
| - | 71     | ((pre?charg\$3 precharg\$3) same compar\$4 ) not ((pre?charg\$3 precharg\$3) same compar\$4 not (lcd (liquid adj crystal)) ) and 345/\$.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/10 13:29 |
| - | 16637  | compar\$4 with horizontal  | USPAT;<br>US-PGPUB              | 2004/06/14 10:43 |
| - | 1365   | compar\$4 with horizontal with data  | USPAT;<br>US-PGPUB              | 2004/06/14 10:44 |
| - | 35     | compar\$4 with horizontal with data and (pre?charg\$3 precharg\$3)   | USPAT;<br>US-PGPUB              | 2004/06/14 10:45 |
| - | 3      | compar\$4 with horizontal with data same (pre?charg\$3 precharg\$3)  | USPAT;<br>US-PGPUB              | 2004/06/14 10:45 |
| - | 32     | (compar\$4 with horizontal with data and (pre?charg\$3 precharg\$3)) not (compar\$4 with horizontal with data same (pre?charg\$3 precharg\$3)) | USPAT;<br>US-PGPUB;<br>EPO; JPO | 2004/06/15 09:49 |